3D Visual Computing and Geometric Analysis

https://3d.snu.ac.kr Department of Electrical and Computer Engineering **Seoul National University**





Young Min Kim Associate Professor Building 301 Room 903 02-880-7277 voungmin.kim@snu.ac.kr

2006 B.S. Electrical Engineering, Seoul National University 2008 M.S. Electrical Engineering, Stanford University 2013 Ph.D. Electrical Engineering, Stanford University 2008 Visiting Researcher, MPI 2013-2015 Research Scientist, KIST 2015-2019 Senior Research Scientist, KIST 2016-2018 Visiting Researcher, University of Texas at Austin 2019-2023 Assistant Professor, Seoul National University 2023-, Associate Professor, Seoul National University



301-916 & INMC(132)-225

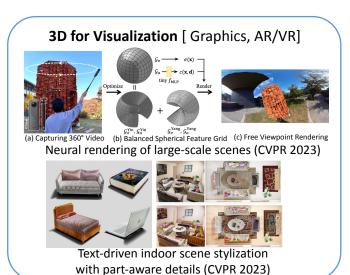
9 Ph.D., 6 MS students

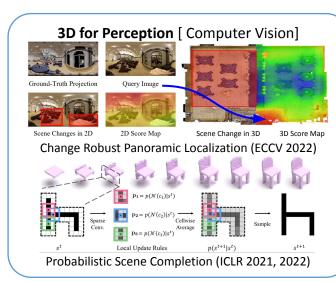
Recommended Prerequisite Programming (C/C++, MATLAB, Python, ...),

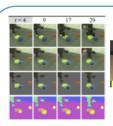
Linear Algebra, Probability, Geometry, Optimization

Research Mission

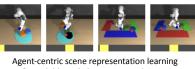
We strive to the emerging field of 3D vision where we understand the 3D world around us. We not only sense, acquire and perceive the 3D models, but also visualize and extract semantic information to develop various applications, namely VR/AR, robotics, human augmentation, and ambient intelligence to name a few. The ultimate goal is the bridge between human and intelligent agent to benefit human. We are looking for talented and creative crew to share our ambition!



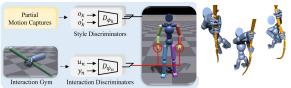




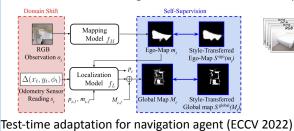
3D for Interaction [Robotics, Animation]



& Model-based planning in pixel-space

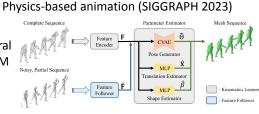


3D scene understanding of robotic interactions and planning

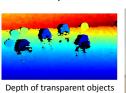


for transparent objects (IROS 2022)

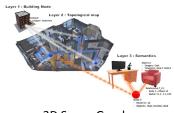
Robust Neural Implicit SLAM



Utilizing Pretrained Reusable Motion Priors



Vision-based robotics



3D Scene Graph

